					Digital Electronics – 1 of 2
Tra	de and Industrial Education	School Year	Student:		Grade:
Coi	rse: Digital Electronics		Teacher: Sch	ool:	
	ırse Code # 5783	Term: Fall Spring	Number of Competencies in Co	ourse: 19	
1 Credit		<u> </u>	Number of Competencies Mastered:		
			Percent of Competencies Maste		
			Tereone of Competencies iviasion		
STAN	DARD 1.0: Students will demonstrate the us	e of gates and counters in logic circ	euits.		
	g Expectations		oriate Mastery or Non-Mastery column	Mastery	Non-Mastery
1.1	Construct logic circuits using gates.				
1.2	Construct logic circuits using flip-flops, counters, and ga	tes.			
STAN	DARD 2.0: Students will demonstrate the us	e of oscillators in logic circuits.			
	g Expectations		oriate Mastery or Non-Mastery column	Mastery	Non-Mastery
2.1	Examine the functions of RC (resistor and capacitor) and	crystal-controlled oscillators.			
2.2	Construct RC and crystal-controlled oscillators.				
STAN	DARD 3.0: Students will demonstrate the fur	nctions of and be able to operate sy	vitches and multiplexers in signal dis	tribution.	•
	g Expectations		oriate Mastery or Non-Mastery column	Mastery	Non-Mastery
3.1	Use digitally controlled analog switches to control analog	and digital signal distribution.			
3.2	Use analog switches to perform multiplexing functions.				
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	DARD 4.0: Students will demonstrate the fung Expectations		oriate Mastery or Non-Mastery column	Mastery	Non-Mastery
	- 1	Спеск ше арргор	oriate Mastery of Non-Mastery Column	Mastery	Tvoii-iviastery
4.1	Compare and contrast analog and digital data.  Determine sampling rates required for input signals.				
4.2	Interpret and create block diagrams of D/A (digital/analo	a) and A/D convertors			
4.3	interpret and create block diagrams of D/A (digital/analo	g) and A/D convertors.			
STAN	DARD 5.0: Students will program and modi	fy microcontrollers.			
earnin	g Expectations	Check the approp	oriate Mastery or Non-Mastery column	Mastery	Non-Mastery
5.1	Use and modify microcontroller features.				
5.2	Explore microcontroller support devices.				
5.3	Program microcontrollers.				

## STANDARD 6.0: Students will demonstrate leadership, citizenship, and teamwork skills required for success in the school, community, and workplace.

Learning	g Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
6.1	Demonstrate dignity in work.			
6.2	Participate in SkillsUSA-VICA as an integral part of classroom instruction.			
6.3	Evaluate school, community, and workplace situations by appl	lying problem-solving and decision-making skills.		
6.4	Demonstrate the ability to work professionally with others.			

Students will perform safety examinations and maintain safety records.

Learnin	ng Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
Safety1	Pass with 100 % accuracy a written examination relating to safety issues.			
Safety2	Pass with 100% accuracy a performance examination relating to safety.			
Safety3	Maintain a portfolio record of written safety examinations and equipment instructor.	examinations for which the student has passed an operational checkout by the		

Additional Comments		